

Special Issue

Forging the Future of Resilient and Intelligent Manufacturing and Production

Message from the Guest Editor

The global manufacturing ecosystem is undergoing unprecedented transformation. The integration of Artificial Intelligence (AI), Internet of Things (IoT), robotics, and automation is redefining how industries operate, while ongoing supply chain disruptions, sustainability imperatives, and workforce challenges highlight the urgent need for resilient, intelligent, and human-centric production. This Special Issue addresses these critical challenges by collecting state-of-the-art research and forward-looking perspectives on how smart manufacturing, advanced maintenance, and intelligent material handling are shaping the factories of tomorrow. By emphasizing breakthrough technologies, integrated frameworks, and real-world case studies. Contributions are invited on (but not limited to) the following themes:

- Smart Manufacturing Systems
- Smart Maintenance
- Material Handling and Logistics
- Human-Centric and Socio-Technical Approaches

Guest Editor

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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